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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : BECKER, Udo et al.Art Unit : UnknownSerial No. : NEW U.S. National StageExaminer : Unknown

Filed : June 5, 2006

Title : INTRINSICALLY SAFE DATA TRANSMISSION DEVICE

Commissioner for Patents

P.O. Box 1450

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## AMENDMENT TO THE CLAIMS OF THE INTERNATIONAL APPLICATION

<u>UNDER PCT ARTICLE 19 (35U.S.C. 371(c) (3))</u>

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File number:

PCT/EP2004/013778

Our reference:

PCT2186HHBR138awi

Date: 20.09.2005

**Patent Claim** 

1. Data transmission device (5) with at least one data adaptation device (6) that is

connected to at least one process control computer (2) and at least one data

distributing device (7) that is connected to at least one field unit (4, 17, 18), wherein

the data transmission device is connected between the process control computer (2)

and the field unit (4) connected thereto via a bus system (3), wherein the process

control computer (2) and field units (4) are parts of a process control system (1) and

the data transmission device (5) is intrinsically safe,

characterised in that

the data adaptation device (6) and its assigned supply devices (8) are formed so

that they are explosion proof and each supply device (8) is connected to the data

distributing device (7) via an explosion-proof line, wherein this data distributing

device or field units (4, 17, 18) connected thereto have a barrier device (10, 11) for

limiting the applied power.

20.09.2005

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